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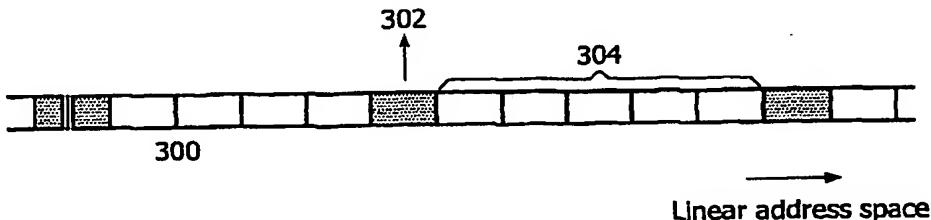
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(54) Title: DISC ALLOCATION/SCHEDULING FOR LAYERED VIDEO



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(57) **Abstract:** A method and apparatus for recording a data stream having a base stream and an enhancement stream on a storage medium for improving non-linear playback performance of the recorded data is disclosed. The data stream is received and I-pictures from the base stream are stored in a first buffer. All of the remaining data from the data stream is stored in a second buffer. Each time the first buffer becomes full, I-pictures stored in the first buffer are written onto an intra-coded allocation unit on the storage medium. The contents of second buffer are written onto at least one subsequent inter-coded allocation unit.